

## ABSTRACT

Processes for assaying potential antitumor agents based on their modulation of the expression of specified genes, or sets, of suspected cancer cell genes, especially for thyroid cancer, are disclosed, along with methods for diagnosing cancerous, or potentially cancerous, conditions as a result of the expression, or patterns of expression, of such genes, or sets of genes. Also disclosed are methods for determining functionally related genes, or gene sets, as well as methods for treating cancer based on targeting expression products of such genes, or gene sets, and determining genes involved in the cancerous process.